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FWM154/05



EN User manual

PHILIPS

Contents

1 Important	4
Safety	4
Notice	5
2 Your Mini Hi-Fi System	7
Introduction	7
What's in the box	7
Overview of the main unit	8
Overview of the remote control	9
3 Get started	11
Connect speakers	11
Install remote control batteries	11
Connect power	12
Set the clock	12
Turn on	12
4 Play disc	13
5 Play options	14
Repeat play	14
Random play	14
Program tracks	14
6 Listen to the radio	15
Tune to a radio station	15
Program radio stations automatically	15
Program radio stations manually	15
Select a preset radio station	15
7 Play tape	16
8 Adjust sound	17
Adjust volume	17
Select a preset sound effect	17
Enhance bass	17
Mute sound	17

9 Use more of your Mini Hi-Fi System	18
Listen to an external device	18
Record from disc	18
Record from radio	18
Record from external source	18
Set the sleep timer	18
Set the alarm timer	19
10 Product information	20
Specifications	20
Supported MP3 disc formats	21
Maintenance	21
11 Troubleshooting	22

1 Important

Safety

Important Safety Instructions

- ① Read these instructions.
- ② Keep these instructions.
- ③ Heed all warnings.
- ④ Follow all instructions.
- ⑤ Do not use this apparatus near water.
- ⑥ Clean only with dry cloth.
- ⑦ Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- ⑧ Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- ⑨ Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- ⑩ Only use attachments/accessories specified by the manufacturer.
- ⑪ Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- ⑫ Unplug this apparatus during lightning storms or when unused for long periods of time.
- ⑬ Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- ⑭ Battery usage **CAUTION** – To prevent battery leakage which may result in bodily injury, property damage, or damage to the unit:
 - Install all batteries correctly, + and - as marked on the unit.
 - Do not mix batteries (old and new or carbon and alkaline, etc.).
 - Remove batteries when the unit is not used for a long time.
- ⑮ Apparatus shall not be exposed to dripping or splashing.
- ⑯ Do not place any sources of danger on the apparatus (e.g. liquid filled objects, lighted candles).
- ⑰ This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.
 - Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



Important notes for users in the U.K.

Mains plug

This apparatus is fitted with an approved 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- ① **Remove fuse cover and fuse.**
- ② **Fix new fuse which should be a BS1362 3 Amp, A.S.T.A. or BSI approved type.**
- ③ **Refit the fuse cover.**

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 3 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 3 Amp.

Note: The severed plug must be disposed off to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

- Connect the blue wire to the terminal marked N or coloured black.
- Connect the brown wire to the terminal marked L or coloured red.
- Do not connect either wire to the earth terminal in the plug, marked E (or $\perp$) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Copyright in the U.K.

Recording and playback of material may require consent. See Copyright Act 1956 and The performer's Protection Acts 1958 to 1972.



Warning

- Never remove the casing of this apparatus.
- Never lubricate any part of this apparatus.
- Never place this apparatus on other electrical equipment.
- Keep this apparatus away from direct sunlight, naked flames or heat.
- Never look into the laser beam inside this apparatus.
- Ensure that you always have easy access to the power cord, plug or adaptor to disconnect this apparatus from the power.

Notice



This product complies with the radio interference requirements of the European Community.

This product complies with the requirements of the following directives and guidelines: 2004/108/EC + 2006/95/EC

Any changes or modifications made to this device that are not expressly approved by Philips Consumer Lifestyle may void the user's authority to operate the equipment.



**Be responsible
Respect copyrights**

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

Recycling



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When you see the crossed-out wheel bin symbol attached to a product, it means the product is covered by the European Directive 2002/96/EC:



Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potentially negative consequences on the environment and human health.

Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed of with normal household waste.

When you see the crossed-out wheel bin symbol with the chemical symbol 'Pb', it means that the batteries comply with the requirement set by the directive for lead:



Please inform yourself about the local rules on separate collection of batteries. The correct

disposal of batteries helps prevent potentially negative consequences on the environment and human health.

Environmental information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet.)

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.



Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

This apparatus includes this label:



2 Your Mini Hi-Fi System

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your product at www.Philips.com/welcome.

Introduction

With this unit, you can enjoy audio from discs, tapes, external devices, or radio stations. The unit offers you multiple sound effect settings that enrich sound with Digital Sound Control (DSC) and Dynamic Bass Boost (DBB). The unit supports the following media formats:

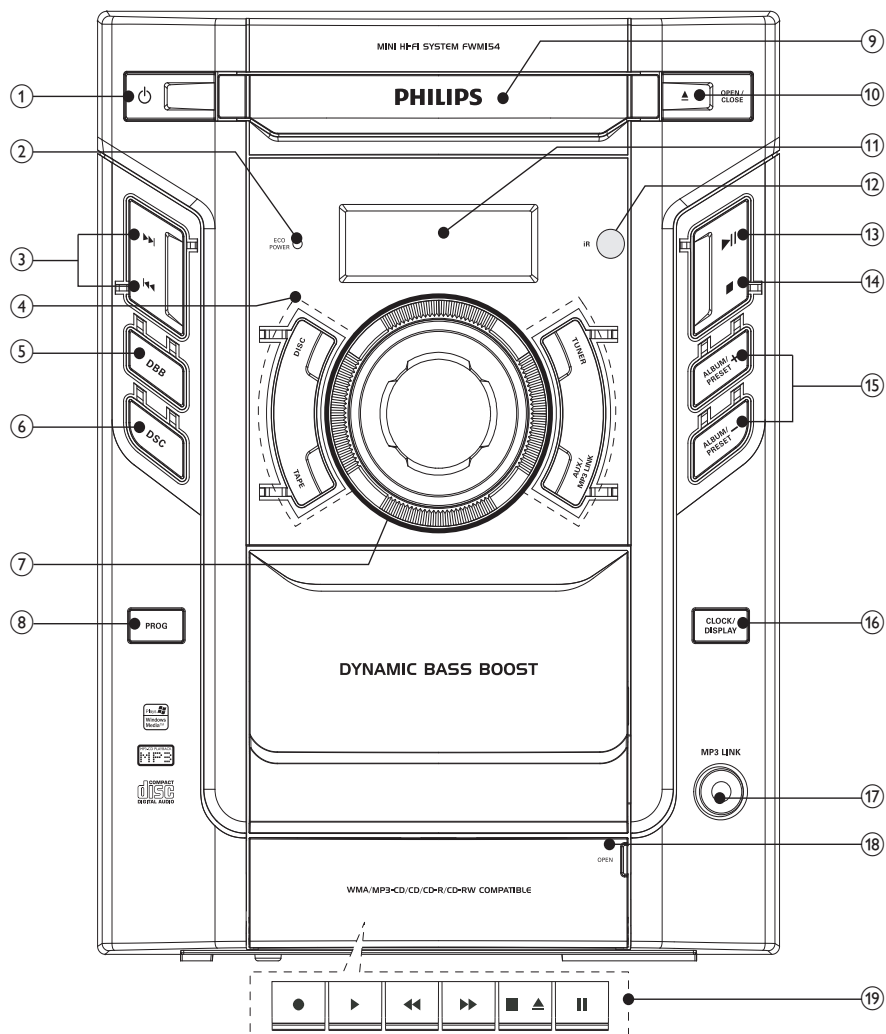


What's in the box

Check and identify the contents of your package:

- Main unit
- Speaker box x 2
- Remote control
- MP3 link cable
- User manual
- Quick start guide

Overview of the main unit



- ①  Turn on the unit, switch to standby mode, or switch to Eco power standby.

② ECO POWER indicator

- ③  Skip to the previous/next track.
- Search within a track/ disc.
 - Adjust time.

④ **Source buttons (DISC, TAPE, TUNER, AUX/MP3 LINK)**

- Select a source: DISC, TAPE, TUNER, or AUX/MP3 LINK.

⑤ **DBB**

- Turns on or off dynamic bass enhancement.

⑥ **DSC**

- Select a preset sound setting.

⑦ **Volume control**

- Adjust volume.

⑧ **PROG**

- Program tracks.
- Program radio stations.
- Review the program.

⑨ **Disc compartment**

⑩ **OPEN/CLOSE ▲**

- Open or close the disc compartment.

⑪ **Display panel**

- Show current status.

⑫ **IR sensor**

⑬ **▶||**

- Start or pause play.

⑭ **■**

- Stop play or erase a program.

⑮ **ALBUM/PRESET +/-**

- Select a preset radio station.
- Skip to the previous/next album.

⑯ **CLOCK/DISPLAY**

- Set the clock.
- During play, display the clock.

⑰ **MP3 LINK**

- Audio input jack (3.5mm) for an external audio device.

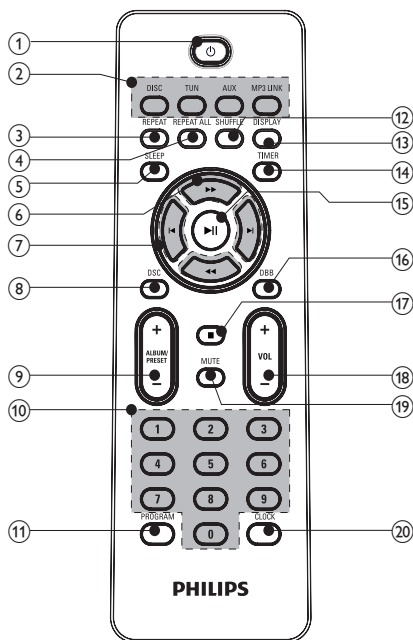
⑱ **OPEN**

- Pull to open the tape button cover.

⑲ **Tape controls**

- ●
Start to record.
- ▶
Start tape play.
- ◀▶
Fast rewind/forward the tape.
- ■▲
Stop the tape play or open the tape door.
- ||
Pause tape play or pause recording.

Overview of the remote control



① **●**

- Turn on the unit, switch to standby mode, or switch to Eco power standby.

- ② **Source buttons (DISC, TUN, AUX, MP3 LINK)**
 - Select a source: DISC, TUNER, AUX, or MP3 LINK.
- ③ **REPEAT**
 - Play a track repeatedly.
- ④ **REPEAT ALL**
 - Play all tracks repeatedly.
- ⑤ **SLEEP**
 - Set the sleep timer.
- ⑥ **⏮️/⏭️**
 - Search within a track/disc.
 - Tune to a radio station.
- ⑦ **⏮️/⏭️**
 - Skip to the previous/next track.
 - Adjust time.
- ⑧ **DSC**
 - Select a preset sound setting.
- ⑨ **ALBUM/PRESET +/-**
 - Select a preset radio station.
 - Skip to the previous/next album.
- ⑩ **Numeric keypad**
 - Select a track from a disc directly.
 - Select a preset radio station directly.
- ⑪ **PROGRAM**
 - Program tracks.
 - Program radio stations.
 - Review the program.
- ⑫ **SHUFFLE**
 - Play tracks randomly.
- ⑬ **DISPLAY**
 - During play, display the clock.
- ⑭ **TIMER**
 - Set the alarm timer.
 - Review the alarm timer.
- ⑮ **▶️||**
 - Start or pause play.
- ⑯ **DBB**
 - Turns on or off dynamic bass enhancement.
- ⑰ **■**
 - Stop play or erase a program.
- ⑱ **VOL +/-**
 - Adjust volume.
- ⑲ **MUTE**
 - Mute volume.
- ⑳ **CLOCK**
 - Set the clock.

3 Get started

! Caution

- Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

Always follow the instructions in this chapter in sequence.

If you contact Philips, you will be asked for the model and serial number of this apparatus. The model number and serial number are on the back of the apparatus. Write the numbers here:

Model No. _____

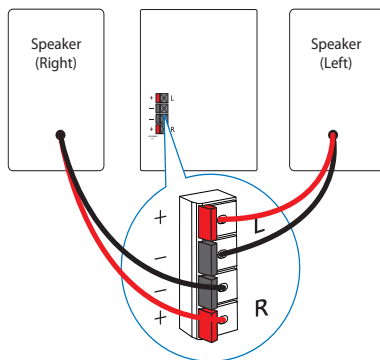
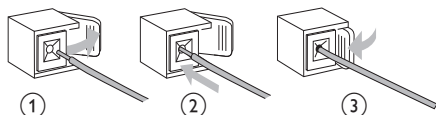
Serial No. _____

Connect speakers

≡ Note

- Ensure that the colors of the speaker wires and terminals are matched.

- 1 Hold down the socket flap.
- 2 Insert the stripped part of the wire completely.
 - Insert the right speaker wires to "R", left speaker wires to "L".
 - Insert the red wires to "+", black wires to "-".
- 3 Release the socket flap.

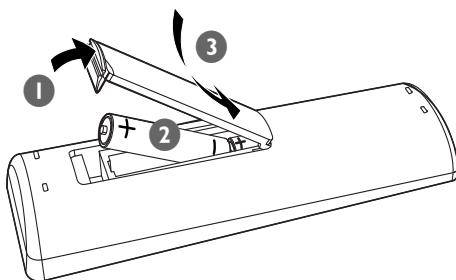


Install remote control batteries

! Caution

- Risk of explosion! Keep batteries away from heat, sunshine or fire. Never discard batteries in fire.
- Risk of decreased battery life! Never mix different brands or types of batteries.
- Risk of product damage! When the remote control is not used for long periods, remove the batteries.

- 1 Open the battery compartment.
- 2 Insert 2 AAA batteries with correct polarity (+/-) as indicated.
- 3 Close the battery compartment.

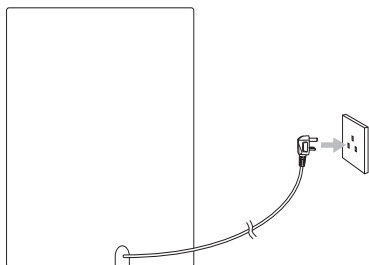


Connect power

! Caution

- Risk of product damage! Ensure that the power supply voltage corresponds to the voltage printed on the back or the underside of the unit.
- Risk of electric shock! When you unplug the AC power cord, always pull the plug from the socket. Never pull the cord.
- Before connecting the AC power cord, ensure you have completed all other connections.

- 1 Connect the power cord to the wall outlet.



Set the clock

≡ Note

To set the clock during disc play, first press ■ to stop play, and then press ⏻ to switch the unit to standby mode.

- 1 In standby mode, press and hold **CLOCK**.
 - ↳ The hour digits are displayed and begin to blink.
- 2 Press ⏮/⏭ on the remote control to set the hours.
- 3 Press **CLOCK**.
 - ↳ The minute digits are displayed and begin to blink.

- 4 Press ⏮/⏭ to set the minutes.
- 5 Press **CLOCK** to confirm the time.

✱ Tip

- During play, you can press **DISPLAY** on the remote control to view the clock.

Turn on

- 1 Press ⏻.
 - ↳ The unit switches to the last selected source.

Switch to standby

- 1 Press ⏻ to switch the unit to standby mode.
 - ↳ The backlight on the display panel is reduced.
 - ↳ The clock (if set) appears on the display panel.

To switch the unit to Eco Power Standby mode:

- 1 In standby mode, press and hold ⏻ for more than 2 seconds.
 - ↳ The backlight on the display panel turns off.
 - In Eco Power Standby mode, press and hold ⏻ for more than 2 seconds to switch to standby mode.

4 Play disc

- 1 Press **DISC** to select the disc source.
- 2 Press **OPEN/CLOSE ▲** on the front panel to open the disc tray.
- 3 Insert a disc with the printed side facing up, then close the disc tray.
 - ↳ Play starts automatically.
 - To pause/resume play, press **▶II**.
 - To stop play, press **■**.
 - For MP3/WMA disc: to select an album, press **ALBUM/PRESET +/-**.
 - To skip to a track, press **◀/▶**.
 - To search within a track, press and hold **◀◀/▶▶**. Release to resume normal play.

5 Play options

Repeat play

Play a track repeatedly

- 1 During play, press **REPEAT** on the remote control.
↳ [REPEAT] (repeat) is displayed. The current track is played repeatedly.
- 2 To return to normal play, press **REPEAT** again.

Play all tracks or an album repeatedly

- 1 During play, press **REPEAT ALL** on the remote control:
 - [REPEAT ALL] (repeat all) is displayed. All tracks are played repeatedly.
- 2 To return to normal play, press **REPEAT ALL** again.

Random play

- 1 Press **SHUFFLE**.
↳ [SHUF] (shuffle) is displayed. All tracks are played randomly.
- 2 To return to normal play, press **SHUFFLE** again.



Tip

- Shuffle play cannot be selected when you play programmed tracks.
- You can activate [SHUF] (shuffle) and [REPEAT ALL] (repeat all) at the same time.

Program tracks

You can program a maximum of 20 tracks.

- 1 At CD mode, in the stop position, press **PROGRAM** on the remote control to activate the program mode.
↳ [PROG] (program) blinks on the display.
- 2 For MP3/WMA tracks, press **ALBUM/PRESET +/-** to select an album.
- 3 Press **◀▶** to select a track number, then press **PROGRAM** to confirm.
- 4 Repeat steps 2 to 3 to program more tracks.
- 5 Press **▶||** to play the programmed tracks.
↳ During play, [PROG] (program) is displayed.
 - To erase the program, in the stop position, press **■**.

6 Listen to the radio

Tune to a radio station



Tip

- For optimal FM reception, fully extend and adjust the position of the FM antenna.
- For optimal MW reception, adjust the position of the main unit.

- 1 Press **TUN** on the remote control to select the tuner source.
- 2 Press **TUN** to select FM or MW.
- 3 Press and hold **◀▶** for more than 2 seconds.
 - ↳ [SEARCH] (search) is displayed.
 - ↳ The radio tunes to a station with strong reception automatically.
- 4 Repeat step 2 to tune to more stations.
 - To tune to a weak station, press **◀▶** repeatedly until you find optimal reception.

Program radio stations automatically



Note

- You can program a maximum of 20 preset radio stations.

- 1 In tuner mode, press and hold **PROGRAM** for 2 seconds to activate automatic program mode.
 - ↳ [AUTO] (auto) is displayed and begins to blink.
 - ↳ All available stations are programmed in the order of waveband reception strength.

- ↳ The first programmed radio station is broadcast automatically.

Program radio stations manually



Note

- You can program a maximum of 20 preset radio stations.

- 1 Tune to a radio station.
- 2 Press **PROGRAM** to activate program mode.
 - ↳ [PROG] (program) blinks on the display.
- 3 Press **ALBUM/PRESET +/-** to allocate a number (1 to 20) to this radio station, then press **PROGRAM** to confirm.
 - ↳ The preset number and the frequency of the preset station are displayed.
- 4 Repeat the above steps to program other stations.



Note

- To overwrite a programmed station, store another station in its place.

Select a preset radio station

- 1 In tuner mode, press **ALBUM/PRESET +/-** to select a preset number.

7 Play tape

- 1 Press **TAPE** on the main unit to select the tape source.
- 2 Pull **OPEN** on the front panel to open the tape button cover.
- 3 Press **■▲** to open the tape door.
- 4 Load the tape with the open side downward and the full spool to the left.
- 5 Press **▶** to start play.
 - To pause/resume play, press **||**.
 - To fast rewind/forward the tape, press **◀◀▶▶**.
 - To stop play, press **■▲**.



Note

- When you play or record a tape, the sound source cannot be changed.

8 Adjust sound

Adjust volume

- 1 During play, press **VOL +/-** to increase/decrease the volume.

Select a preset sound effect

- 1 During play, press **DSC** repeatedly to select:
 - [POP] (pop)
 - [JAZZ] (jazz)
 - [CLASSIC] (classic)
 - [ROCK] (rock)

Enhance bass

- 1 During play, press **DBB** to turn on or off dynamic bass enhancement.
↳ If DBB is activated, DBB is displayed.

Mute sound

- 1 During play, press **MUTE** to mute/unmute sound.

9 Use more of your Mini Hi-Fi System

Listen to an external device

You can also listen to an external audio device through this unit.

For a audio device with a headphone socket:

- 1 Press **MP3 LINK** to select the MP3 link source.
- 2 Connect the supplied MP3 link cable to:
 - the **MP3 LINK** socket on this unit
 - the headphone socket on an MP3 player.
- 3 Start to play the MP3 player. (See the user manual of the MP3 player)

For other audio devices:

- 1 Press **AUX** to select the AUX source.
- 2 Connect audio cables to:
 - the **AUX IN** sockets on this unit
 - the audio output sockets on the audio device.
- 3 Start to play the device. (See the device user manual)

Record from disc

- 1 Press **DISC** to select the disc source.
- 2 Place a disc on the tray with the printed side facing up.
- 3 Press **■▲** to open the tape compartment.
- 4 Insert a blank tape and close the tape compartment.
- 5 To record from a specific track, press **◀/▶** to select the track.
- 6 To record tracks in a specific sequence, program the tracks (see 'Program tracks' on page 14).

- 7 Press **●** to start to record.
 - To pause, press **⏸**. To resume, press **⏸** again.
 - To stop, press **■▲**.

Record from radio

- 1 Tune to a radio station.
- 2 Press **■▲** to open the tape compartment.
- 3 Insert a blank tape and close the tape compartment.
- 4 Press **●** to start to record.
 - To pause, press **⏸**. To resume, press **⏸** again.
 - To stop, press **■▲**.

Record from external source

- 1 Press **AUX** or **MP3 LINK** to select a source.
- 2 Connect the external device.
- 3 Start to play the selected source.
- 4 Press **■▲** to open the tape compartment.
- 5 Insert a blank tape and close the tape compartment.
- 6 Press **●** to start to record.
 - To pause, press **⏸**. To resume, press **⏸** again.
 - To stop, press **■▲**.

Set the sleep timer

This unit can switch to standby automatically after a set period of time.

- 1 When the unit is turned on, press **SLEEP** repeatedly to select a set period of time (in minutes).
 - ↳ When sleep timer is activated, the display shows **zzz**.

To deactivate sleep timer

- 1 Press **SLEEP** repeatedly until "SLP OFF" is displayed.
 - ↳ When sleep timer is deactivated,  disappears on the display.

Set the alarm timer

This unit can be used as an alarm clock. The last selected source is activated to play at a preset time.

- 1 Ensure that you have set the clock correctly.
- 2 Press and hold **TIMER** on the remote control for more than 2 seconds.
 - ↳ The hour digits are displayed and begin to blink.
- 3 Press /  to set the hour.
- 4 Press **TIMER** to confirm.
 - ↳ The minute digits are displayed and begin to blink.
- 5 Press /  to set the minute.
- 6 Press **TIMER** to confirm.
 - ↳ The timer is set and activated.

To select a source to activate as the alarm sound:

- 1 Press **DISC**, **TUN**, **AUX**, **MP3 LINK**, or **TAPE** to select a source.
 - For **DISC**: ensure that there is a disc in the disc compartment.
 - For **TUNER**: tune to a radio station.
 - For **AUX/MP3 LINK**: ensure that the external device is connected and turned on.
 - For **TAPE**: ensure that there is a tape in the tape deck and press the  button.
- 2 Press  to switch the unit to standby.

Activate and deactivate alarm timer

- 1 Press **TIMER** repeatedly to activate or deactivate timer.
 - ↳ If timer is activated, the display shows .
 - ↳ If timer is deactivated,  disappears on the display.

10 Product information



Note

- Product information is subject to change without prior notice.

Specifications

Amplifier

Rated Output Power	2X20W RMS
Frequency Response	63 - 16000 Hz, ± 3 dB
Signal to Noise Ratio	>62dB

Disc

Laser Type	Semiconductor
Disc Diameter	12cm/8cm
Support Disc	CD-DA, CD-R, CD-RW, MP3-CD, WMA-CD
Audio DAC	24Bits / 44.1kHz
Total Harmonic Distortion	<1%
Frequency Response	63Hz - 16kHz
S/N Ratio	>65dBA

Tuner

FM

Tuning Range	87.5 - 108 MHz
Tuning grid	50 KHz
Sensitivity	
- Mono, 26dB S/N Ratio	<22 dBu
- Stereo, 46dB S/N Ratio	<45 dBu
Search Selectivity	<28 dBu
Total Harmonic Distortion	<3%
Signal to Noise Ratio	>45 dB

MW

Tuning Range	531 - 1602 kHz
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Tape deck

Frequency Response	125-8000Hz
Normal tape (type I)	(8dB)
S/N Ratio	
Normal tape (type I)	35dBA
Wow and flutter	$\leq 0.4\%$ DIN

Speakers

Speaker Impedance	8ohm
-------------------	------

General information

AC power	220 - 230V, 50Hz
Operation Power Consumption	44 W
Standby Power Consumption	<0.9 W
Eco Standby Power Consumption	<0.8 W
Dimensions	
- Main Unit (W x H x D)	220 x 290 x 271 mm
- Speaker Box (W x H x D)	189 x 290 x 175 mm
Weight	
- With Packing	8,5 kg
- Main Unit	3,8 kg
- Speaker Box	2 x 1,7 kg

Supported MP3 disc formats

- ISO9660, Joliet
- Maximum title number: 511 (depending on file name length)
- Maximum album number: 511
- Directory nesting up to a maximum of 8 levels
- Supported sampling frequencies: 32 kHz, 44,1kHz, 48 kHz
- Supported Bit-rates: 32~256 (kbps), variable bit rates
- ID3 tag v2.0 or later

Maintenance

Clean the cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Clean discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out.



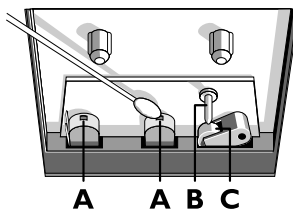
- Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analogue records.

Clean the disc lens

- After prolonged use, dirt or dust may accumulate at the disc lens. To ensure good play quality, clean the disc lens with Philips CD lens cleaner or any commercially available cleaner. Follow the instructions supplied with cleaner.

Clean the heads and the tape paths

- To ensure good recording and play quality, clean the heads **A**, the capstan(s) **B**, and pressure roller(s) **C** after every 50 hours of tape operation.
- Use a cotton swab slightly moistened with cleaning fluid or alcohol.



- You can also clean the heads by playing a cleaning tape once.

Demagnetise the heads

- Use a demagnetising tape available at your dealer.

11 Troubleshooting



Warning

- Never remove the casing of this apparatus.

To keep the warranty valid, never try to repair the system yourself.

If you encounter problems when using this apparatus, check the following points before requesting service. If the problem remains unsolved, go to the Philips web site www.philips.com/welcome. When you contact Philips, ensure that the apparatus is nearby and the model number and serial number are available.

No power

- Ensure that the AC power plug of the unit is connected properly.
- Ensure that there is power at the AC outlet.
- To save power, the system switches off automatically 15 minutes after track play reaches the end and no control is operated.

No sound or poor sound

- Adjust the volume.
- Check that the speakers are connected correctly.
- Check if the stripped speaker wires are clamped.

Left and right sound outputs reversed

- Check the speaker connections and location.

No response from the unit

- Disconnect and reconnect the AC power plug, then turn on the system again.
- As a power-saving feature, the unit switches off automatically 15 minutes after track play reaches the end and no control is operated.

Remote control does not work

- Before you press any function button, first select the correct source with the remote control instead of the main unit.

- Reduce the distance between the remote control and the unit.
- Insert the battery with its polarities (+/- signs) aligned as indicated.
- Replace the battery.
- Aim the remote control directly at the sensor on the front of the unit.

No disc detected

- Insert a disc.
- Check if the disc is inserted upside down.
- Wait until the moisture condensation at the lens has cleared.
- Replace or clean the disc.
- Use a finalized CD or correct format disc.

Poor radio reception

- Increase the distance between the unit and your TV or VCR.
- Fully extend the FM antenna.
- Connect an outdoor FM antenna instead.

Timer does not work

- Set the clock correctly.
- Switch on the timer.

Clock/timer setting erased

- Power has been interrupted or the power plug has been disconnected.
- Reset the clock/timer.



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